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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/803,336	03/18/2004	Shan-Yen Yang	39524.9700	5575
20322	7590	06/02/2005	EXAMINER	
SNELL & WILMER ONE ARIZONA CENTER 400 EAST VAN BUREN PHOENIX, AZ 850040001			DUVERNE, JEAN F	
			ART UNIT	PAPER NUMBER
			2839	

DATE MAILED: 06/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/803,336

Applicant(s)

YANG ET AL.

Examiner

Jean F. Duverne

Art Unit

2839

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 22 March 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3-4, 11-13, 15-16, 19, 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Roberts (US 5240420).

Roberts' device discloses a connecting an electrical device, the connection device comprising a dielectric housing (2, 3), the dielectric housing including a slot at 17 for plugging in the electrical device, the slot defining a top surface and a bottom surface; a first bulge portion (B1: see attachment) and a second bulge portion (B2: see attachment) extending downward from the top surface of the slot; and a third bulge (B3: see attachment portion) and a fourth bulge portion (B4: see attachment) extending upward from the bottom surface of the slot; wherein the first bulge portion corresponds to the third bulge portion for clamping the electrical device, and wherein the second bulge portion corresponds to the fourth bulge portion for electrically coupling to the electrical device (see fig. 2); wherein the first bulge portion further comprises a first surface for clamping the electrical device; wherein the third bulge portion further comprises a second surface for clamping the electrical device; wherein the second bulge portion further comprises a third conductive layer for electrically coupling to the

electrical device; the sloping features at B3 and B4 for guiding the electrical device, and a cable or flat flex cable at 14.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2, 8, 10, 14, 20, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Roberts (US 5240420).

In regard to claims 2, 14, Roberts' device discloses the aforementioned limitations, but fails to explicitly disclose the distance between the bulges. It would have been obvious to one having ordinary skill in the art at the time the invention was made to place the first bulge portion and the third bulge portion at a distance a distance larger than the one between the second bulge portion and the fourth bulge portion, since it has been held that rearranging of parts of an invention involves only routine skill in the art. In re Japikse, 86 USPQ 70. It would have been obvious to one having ordinary skill in the art at the time the invention was made to place the first bulge portion and the third bulge portion at a distance a distance larger than the one between the second bulge portion and the fourth bulge portion as an alternative connecting feature in Roberts' device in order to improve the system reliability.

In regard to claims 8, 10, 20, and 22, Roberts' device discloses the aforementioned limitations, but fails to explicitly disclose the exact angle ranges between the sloping surface and the surface of the electrical device. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have angle ranges 30 and 60 degrees between the sloping surface and the surface of the electrical device in order to improve the interconnection system and reliability in Roberts' device.

Claims 5-6, 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Roberts (US 5240420) in view of Takeuchi (US006575769B1).

Roberts' device discloses the aforementioned limitations, but fails to explicitly disclose the conductive layer for electrically coupling to the electrical device. Takeuchi's device discloses the conductive layer at 74 for electrically coupling to the electrical device. It would have been obvious to one having ordinary skill in the art at the time the invention was made to add the conductive layer to the coupling features such as the one in Takeuchi's device in order to make reliable connection with the coupling device in Roberts' device.

### ***Conclusion***

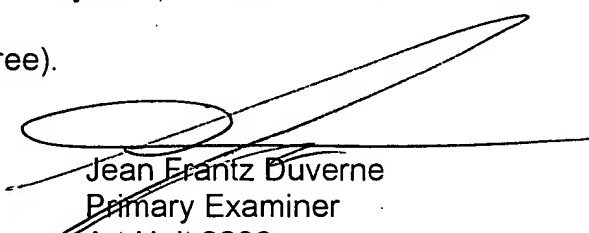
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean F. Duverne whose telephone number is (571) 272-2091. The examiner can normally be reached on 9:00-7:30, Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TC Patel can be reached on (571) 272-2098. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JFD

05/26/2005



Jean Frantz Duverne  
Primary Examiner  
Art Unit 2839